NITRATE-N + NITRITE-N IN DRINKING AND SURFACE WATERS, AND DOMESTIC AND INDUSTRIAL WASTES SEAL AQ2 METHOD NO: EPA 126A REVISION 5

Facility Name:_____VELAP ID_____

Assessor Name:_____ Analyst Name:_____ Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?	*Method Supplement 1, Rev. 2 (MS)* 3.2.1				
2. Is linearity reestablished if any verification data exceeds initial calibration values by ±10%?	*MS* 3.2.1				
3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? *NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.*	*MS* 3.4.3, 3.4.3.4, 3.4.3.5				
4. Is at least one method blank carried through all the procedural steps with each batch?	*MS* 3.4.1.1				
5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?	*MS* 4.5				
6. Is a minimum of 10% of all samples spiked with the stock standard?	*MS* 3.3.1				
7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?	MS 3.3.1.1.1				
8. Were absorbencies read at 520 nm?	2.1				
Notes/Comments:					

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9. Was volumetric glassware class A?	6.2				
10. Was the pH of the ammonium chloride buffer stock adjusted to 8.5?	7.1				
11. Did the working buffer contain 0.02% surfactant?	7.1				
12. Was the working buffer discarded if it developed a pink color?	7.1				
13. Was the sodium nitrate used to make stock Nitrate Standard solutions dried for at least 2 hours at 105°C?	7.2				
14. Were stock Nitrite Standard solutions stored in amber bottles at 4°C for not longer than 1 month?	7.2				
15. Were intermediate Nitrate Standard solutions stored at 4°C for not longer than 2 weeks?	7.2				
16. Were intermediate Nitrite Standard solutions prepared at least twice weekly?	7.2				
17. Were samples collected in glass or plastic bottles?	8.1				
18. For nitrate in drinking water, are samples preserved at 4°C and analyzed within 48 hours of collection unless the sample is chlorinated? If chlorinated, analyze within 14 days.	40CFR141.23.k(2)				
19. For nitrite in drinking water, are samples preserved at 4°C and analyzed within 48 hours?	40CFR141.23.k(2)				
20. For nitrate + nitrite in drinking water, are samples preserved by acidifying to pH<2 with sulfuric acid and analyzed within 28 days?	40CFR141.23.k(2)				
21. For nitrate in nonpotable water, are samples preserved at ≤6ºC and analyzed within 48 hours?	40CFR136.3 Table 1l				
22. For nitrite in nonpotable water, are samples preserved at ≤6ºC and analyzed within 48 hours?	40CFR136.3 Table 1l				
23. For nitrate + nitrite in nonpotable water, are samples acidified to pH<2 with sulfuric acid, preserved at ≤6ºC, and analyzed within 28 days?	40CFR136.3 Table 1l				
Notes/Comments:					